

A LIST OF KNOWN ROBBER FLIES OF PENNSYLVANIA (DIPTERA: ASILIDAE)¹

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ABSTRACT: Pennsylvania county records and capture dates are presented for 84 asilid species known from the state.

Within the past several decades scant attention has been given to the taxonomy or distribution of asilids of the eastern Nearctic region. Despite accounts of eastern *Diogmites* (Artigas 1966), Michigan asilids (Baker and Fischer 1975), and Arkansas asilids (Scarborough 1972), several of the most recent notes include Brimley (1922), Bromley (1925, 1931, 1946a, b, 1947, 1950 a, b), Champlain and Knoll (1923), Fattig (1945), and McAtee and Banks (1920). While initiating a revision of the genus *Laphria*, I examined 1699 specimens collected from Pennsylvania and noted county and date of capture for each. In the resulting list, the number of specimens examined of each species is also presented to provide a rough estimate of relative abundance. Note, however, that inter-generic comparisons of relative abundance, in particular, should be drawn carefully since large and hence more conspicuous species are more likely to be captured than smaller species. Note too that capture dates do not refer to the known flight period over a species' total geographic range but instead refer only to the range of known Pennsylvania capture dates. For more information on flight range and general biology of east coast asilids, the reader is referred to the aforementioned articles plus Bromley (1923), Scarborough and Sipes (1973), Scarborough and Norden (1977), and Scarborough (1978).

For each species in the following list Roman numerals are followed by (I) Pennsylvania counties within which at least one individual was captured, (II) range of Pennsylvania capture dates, and (III) number of specimens examined by the author. Unfortunately, for several rare species, the few specimens collected were only labelled "Pa." and in these cases the county and date of capture information is noted as being "Unrecorded". The asilid classification and nomenclature system followed is that of Martin and Wilcox (1965).

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KNOWN ASILIDAE OF PENNSYLVANIA

Leptogastrinae

1. *Beameromyia pictipes* (Loew). I. Delaware, Monroe II. June 16-July 12 III.2
2. *Leptogaster atridorsalis* Back. I. Delaware, Montgomery, Philadelphia, II. June 6-July 14 III. 5
3. *Leptogaster flavipes* Loew. I. Allegheny, Bucks, Centre, Delaware, Lehigh, Monroe, Montgomery, Philadelphia, Westmoreland II. June 4-July 24 III. 44
4. *Leptogaster incisuralis* Loew. I. Delaware II. June 13-June 24 III.2
5. *Leptogaster virgata* Coquillett. I. Allegheny, Bucks, Delaware II. July 2-August 1 III.3
6. *Psilonyx annulatus* (Say). I. Delaware, Fayette, Montgomery, Philadelphia II. July 5-September 4 III. 18
7. *Tipulogaster glabrata* (Wiedemann). I. Allegheny, Lehigh, Montgomery, Westmoreland II. June 13-August 17 III. 21

Dasypogoninae

8. *Ceraturgus cruciatus* (Say). I. Centre, Chester, Cumberland, Dauphin, Huntingdon, Lebanon, Lehigh, Monroe, Philadelphia, Potter II. June 3-July 30 III.33
9. *Ceraturgus similis* Johnson. I. Unrecorded II. Unrecorded III.1
10. *Cryptopogon falto* (Walker). I. Centre, Forest, Huntingdon, Mifflin, Potter II. June 9-July 4 III. 12
11. *Cryptopogon laphriformis* Curran. I. Bucks II. May 14 III. 1
12. *Cryptopogon lyratus* Osten Sacken. I. Tioga II. August 2 III. 1
13. *Cryptopogon maginalis* Loew. I. Centre, Huntingdon II. June 19-August 4 III.2
14. *Dioctria (Dioctria) baumhaueri* Meigen. I. Centre II. June 9 III. 1
15. *Dioctria (Eudioctria) albius* Walker. I. Allegheny, Bradford, Centre, Fayette, Lebanon, Lehigh, Monroe, Montgomery, Philadelphia, Potter, Somerset, Westmoreland II. May 25-August 6 III. 91
16. *Dioctria (Eudioctria) brevis* Banks I. Centre, Lehigh, York II. June 9-July 21 III.13
17. *Dioctria (Eudioctria) tibialis* Banks. I. Montgomery, Philadelphia, Westmoreland II. June 22-July 13 III. 3
18. *Diognites basalis* (Walker). I. Allegheny, Bucks, Dauphin, Delaware, Fayette, Lehigh, Luzerne, Monroe, Philadelphia, Pike, Sullivan II. July 13-August 30 III.29
19. *Diognites discolor* Loew. I. Adams, Allegheny, Berks, Bucks, Centre, Dauphin, Delaware, Franklin, Lancaster, Philadelphia II. July 9-September 2 III.41
20. *Diognites misellus* Loew. I. Monroe II. Unrecorded III.2
21. *Diognites platypterus* Loew. I. Centre, Clearfield II. July 30-August 13 III.9
22. *Echthopoda formosa* Loew. I. Delaware II. July 1 III. 2
23. *Heteropogon macerinus* (Walker). I. Berks, Blair, Cumberland, Dauphin, Lehigh, Montgomery, Somerset II. July 11-September 15 III. 22
24. *Holocephala abdominalis* (Say). I. Delaware, Erie, Fayette, Lancaster, Montgomery, Philadelphia, Westmoreland II. June 15-September 1 III. 98
25. *Holocephala calva* (Loew). I. Centre, Delaware, Fayette, Lehigh, Montgomery II. June 23-August 22 III.31

26. *Holopogon (Holopogon) guttulus* (Wiedemann). I. Lehigh, Monroe, Montgomery II. June 14-July 15 III. 4
27. *Holopogon (Holopogon) phaeonotus* Loew. I. Dauphin, Lehigh II. Unrecorded III.4
28. *Stichopogon argenteus* (Say). I. Unrecorded II. Unrecorded III. 1
29. *Stichopogon trifasciatus* (Say). I. Lehigh II. June 28-August 18 III. 2
30. *Taracticus octopunctatus* (Say). I. Allegheny, Montgomery, Philadelphia, Westmoreland II. July 3-July 11 III. 8

Laphriinae

31. *Andrenosoma fulvicauda* (Say). I. Allegheny, Bucks, Dauphin, Venango II. June 13-August 16 III. 4
32. *Atomosia glabrata* (Say). I. Allegheny, Delaware, Philadelphia, Westmoreland II. June 8-August 11 III.9
33. *Atomosia puella* (Wiedemann). I. Allegheny, Centre, Chester, Dauphin, Delaware, Lehigh, Monroe, Montgomery, Philadelphia, Westmoreland II. June 2-August 22 III. 47
34. *Atomosia pusilla* Macquart. I. Centre, Delaware, Lancaster, McKean, Philadelphia II. June 21-July 21 III. 16
35. *Atomosia rufipes* Macquart. I. Bucks, Delaware II. June 24-August 17 III. 3
36. *Atomosia sayii* Johnson. I. Delaware, Monroe, Philadelphia II. June 30-July 31 III.23
37. *Cerotainia albipilosa* Curran. I. Centre, Delaware, Lehigh, Montgomery II. June 18-July 28 III. 7
38. *Cerotainia macrocera* (Say). I. Allegheny, Berks, Dauphin, Delaware, Fayette, Lehigh, Montgomery, Philadelphia, Westmoreland II. June 19-August 12 III.16
39. *Dasylechia atrox* (Williston). I. Philadelphia II. July 28 III. 1
40. *Laphria bicolor* (Wiedemann). I. Delaware, Monroe II. June 30 III.2
41. *Laphria aeata* Walker. I. Monroe II. Unrecorded III. 1
42. *Laphria affinis* Macquart. I. Philadelphia II. June 18 III. 1
43. *Laphria aktis* McAtee. I. Allegheny, Dauphin II. May 27-June 27 III.11
44. *Laphria canis* Williston. I. Allegheny, Bucks, Centre, Cumberland, Dauphin, Delaware, Fayette, Huntingdon, Lehigh, Montgomery, Philadelphia, Westmoreland II. May 29-August 25 III. 67
45. *Laphria champlainii* (Walton). I. Cumberland II. June 29-July 7 III. 8
46. *Laphria divisor* (Banks). I. Allegheny, Delaware, Philadelphia, Washington II. June 12-July 8 III.9
47. *Laphria flavicollis* Say. Allegheny, Berks, Centre, Chester, Cumberland, Delaware, Fayette, Lehigh Philadelphia, Washington II. May 9-August 2 III. 161
48. *Laphria gilva* (Linnaeus). I. Philadelphia II. June 25 III. 1
49. *Laphria grossa* (Fabricius). I Centre, Cumberland, Delaware, Lehigh, Philadelphia II. June 3-July 28 III. 25
50. *Laphria index* McAtee. I. Allegheny, Dauphin, Montgomery, Tioga, Westmoreland II. June 2-August 25 III. 13
51. *Laphria ithypyga* McAtee. I. Beaver, Delaware, Huntingdon, Philadelphia, Somerset II. June 19-September 4 III. 17
52. *Laphria posticata* Say. I. Centre, Delaware, Huntingdon, Lehigh, Union II. May 10-August 20 III. 16

53. *Laphria sacrator* Walker. I. Forest, Sullivan II. June 7-August 5 III. 7
54. *Laphria sadales* Walker. I. Monroe II. July 12, III. 1
55. *Laphria saffrana* Fabricius. I. Allegheny II. Unrecorded III. 1
56. *Laphria scorpio* McAtee. I. Centre II. July 14 III. 1
57. *Laphria sericca* Say. I. Allegheny, Centre, Dauphin Fayette, Huntingdon, Monroe, Washington, Westmoreland II. May 21-August 13 III. 40
58. *Laphria sicula* McAtee. I. Allegheny, Centre, Fayette, Montgomery, Philadelphia, Westmoreland II. June 4-August 13 III. 32
59. *Laphria thoracica* Fabricius. I. Allegheny, Centre, Cumberland, Dauphin, Delaware, Lehigh, Montgomery, Washington II. May 17-July 19 III. 73
60. *Laphria virginica* (Banks). I. Dauphin, Philadelphia II. June 15-July 18 III. 3
61. *Laphria winneman* McAtee. I. Allegheny, Centre, Forest, Huntingdon, Philadelphia II. June 15-July 11 III. 18

Asilinae

62. *Asilus auricomus* Hine. I. Elk, Monroe, Philadelphia II. August 27-October 12 III.6
63. *Asilus erythrocnemius* Hine. I. Pike II. July 8 III. 1
64. *Asilus lecythus* Walker. I. Admas, Allegheny, Bucks, Centre, Dauphin, Fayette, Monroe, Montgomery, Westmoreland II. June 20-July 23 III. 55
65. *Asilus sericeus* Say. I. Allegheny, Centre, Delaware, Forest, Huntingdon, Lebanon, Lehigh, Monroe, Montgomery, Perry II. May 20-September 1 III. 78
66. *Asilus virginicus* Banks. I. Centre, Cumberland II. June 10-July 8 III. 2
67. *Efferia aestivans* (Linnaeus). I. Allegheny, Berks, Bucks, Centre, Cumberland, Delaware, Huntingdon, Lawrence, Luzerne, Mercer, Monroe, Montgomery, Philadelphia, II. June 6-August 24 III. 108
68. *Efferia pogonias* (Wiedemann). I. Allegheny, Centre, Dauphin, Delaware, Erie, Luzerne, Monroe, Philadelphia, Pike II. July 12-September 21 III. 23
69. *Neoitamus flavofemoratus* (Hine). I. Berks, Centre, Chester, Clearfield, Crawford, Dauphin, Delaware, Fayette, Monroe, Montgomery, Philadelphia, Somerset, Westmoreland II. May 29-August 11 III. 33
70. *Neoitamus orphne* (Walker). I. Allegheny, Berks, Cameron, Centre, Fayette, Lebanon, Mifflin, Monroe, Philadelphia, Tioga, Westmoreland II. May 21-August 20 III. 70
71. *Ommatius tibialis* Say. I. Allegheny, Fayette, Westmoreland II. July 15-August 20 III. 4
72. *Proctacanthus philadelphicus* Macquart. I. Lehigh, Philadelphia II. July 28-August 27 III.2
73. *Proctacanthus rufus* Williston. I. Lehigh II. July 14 III. 1
74. *Promachus bastardi* (Macquart). I. Allegheny, Centre, Delaware, Montgomery, Philadelphia, Westmoreland II. June 24-September 2 III. 26
75. *Promachus rufipes* (Fabricius). I. Centre, Cumberland, Dauphin II. July 28 - September 26 III.7
76. *Promachus vertebratus* (Say). I. Allegheny, Bucks, Centre, Clearfield, Dauphin, Huntingdon II. July 1-September 5 III. 19
77. *Tolmerus antimachus* (Walker). I. Allegheny II. July 13 III. 1
78. *Tolmerus johnsoni* (Hine). I. Delaware II. July 14 III. 1

79. *Tolmerus maneei* (Hine). I. Unrecorded II. Unrecorded III. 1
80. *Tolmerus notatus* (Widemann). I. Bucks, Centre, Cumberland, Delaware, Fayette, Lebanon, Luzerne, Monroe, Montgomery, Philadelphia, Potter, Tioga, Westmoreland II. May 28-September 12 III. 72.
81. *Tolmerus novascotiae* (Macquart). I. Delaware, Lehigh, Philadelphia II. July 2-September 4 III. 11
82. *Tolmerus paropus* (Walker). I. Luzerne, Monroe II. July 9-August 15 III. 3
83. *Tolmerus sadyates* (Walker). I. Centre, Erie, Fayette, Huntingdon, Tioga, Westmoreland II. July 17-September 22 III. 27
84. *Tolmerus snowii* (Hine). I. Delaware, Monroe, Philadelphia II. June 9-August 25 III. 8

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